

## ISVANA APPROVAL OF MANUFACTURER **CERTIFICATE** VI VIS VANA

Certificate No: AMMM00002RK Revision No:

JIS VANA

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This is to certify:

That

VISVANA San. Ith.Ihr.Tic. Ltd. Sti. Türkoba Mah. Atatürk Cad. No:232/1 Büyükçekmece/İstanbul,

Turkev

is an approved manufacturer of **Copper Alloy Castings** 

in accordance with

DNV rules for classification - Ships DNV class programme - DNV-CP-0251 Copper alloy castings

and the following particulars:

Castings for valves, fittings and general application Application area

Alloy type Leaded gunmetal Manufacturing method Sand casting Max. weight See page 2 See page 2 Max. wall thickness Heat treatment condition As cast

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

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Issued at Hamburg on 2024-06-10

This Certificate is valid until 2027-05-07.

DNV local unit: Istanbul

Approval Engineer: Christian Wildhagen



for **DNV** 

This document has been digitally signed and will

Stefan Röhr

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD



JIS VANA

Revision: 2022-12



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263.11-010590-2 AMMM00002RK

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## Particulars of the approval

## Castings for valves, fittings and general application

Alloy type	Grade 3)	Casting method 1)	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Leaded gunmetal	Cu Sn5 Zn5 Pb5	SC	500	50	AC
	Cu Sn7 Zn2 Pb3	SC	500	50	AC
	Cu Sn7 Zn4 Pb7	SC	500	50	AC
	Cu Sn6 Zn4 Pb2	SC	500	50	AC
Remarks:  1) SC: Sand Casting 2) AC: As cast 3) Incl. equivalent grades in acc. to other standards			W VIS VAIN		

## Remarks:

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Revision: 2022-12 Form code: AM 311